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REMARKS

The Office Action mailed May 20, 2004, has been received and reviewed. Claims 84, 85, and 87-117 are currently pending in the application. Claims 92-96, 98-101, and 103-113 are withdrawn from consideration. Claims 84, 85, and 116 have been amended herein.

The following remarks are filed as a supplement to Applicants' response mailed January 20, 2004, which is alleged by the Examiner to be nonresponsive.

Applicants respectfully request reconsideration of the pending claims in light of the amendments and remarks presented herein.

Wardle '534 Reference

The Examiner states that Applicants did not respond to the correct Wardle reference and clarifies that the correct Wardle reference is United States Patent No. 5,472,534. The Examiner states that he believes this reference was cited in the PTO-1449 returned with Paper 32, and asks that a copy of this PTO-1449 be supplied with the response. For the Examiner's convenience, Applicants have included a copy of the PTO-1449 returned with Paper 32. Applicants note that no reference corresponding to United States Patent No. 5,472,534 to Wardle *et al.* is cited therein. Therefore, Applicants acknowledge the Examiner's filing of Form-892 with the Office Action of May 20, 2004, in which United States Patent No. 5,472,534 to Wardle *et al.* ("Wardle '534") is made of record.

Terminal Disclaimers

The Examiner states that only one terminal disclaimer was present in the official electronic record. However, Applicants respectfully submit that three terminal disclaimers (for United States Patent Nos. 5,673,935, 6,039,820, and 6,481,746) were filed with the response filed on January 20, 2004. Copies of the three terminal disclaimers as filed are enclosed for the Examiner's convenience, as is a copy of the date-stamped postcard evidencing receipt of same by The Office.

35 U.S.C. § 112 Claim Rejections

Claims 83-91, 97, 102, and 114-117 stand rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. Applicants respectfully traverse this rejection, as hereinafter set forth.

The Examiner states that the claims are indefinite because the language “formulated for generating gas suitable for use in deploying an air bag or balloon from a supplemental restraint system” and “gas suitable for use in deploying an air bag or balloon from a supplemental restraint system” is indefinite. Office Action of October 16, 2003, p. 3 and Office Action of May 20, 2004, p. 2. In the outstanding Office Action, the Examiner has emphasized the language “gas suitable for use.” Office Action of May 20, 2004, p. 2. However, in the previous Office Action, the Examiner’s rejections appeared to focus on allegedly inconsistent meanings of this language. Since it is unclear from the Examiner’s statements in these two Office Actions whether the claims are rejected due to the specific language that is used or due to the allegedly inconsistent meanings of this language, Applicants address both issues herein.

To meet the requirements of 35 U.S.C. § 112, second paragraph, the scope of the claim must be clear to a hypothetical person possessing the ordinary level of skill in the pertinent art. M.P.E.P. § 2171. The definiteness of the claim language is analyzed in light of, *inter alia*, the content of the patent application. M.P.E.P. § 2173.02.

Applicants respectfully submit that a person of ordinary skill in the art would understand the scope of the claims in light of the teachings in the specification. Applicants note that the Examiner has provided no specific reason to explain why this language is considered indefinite. As explained in the specification, gas generating compositions that are used in air bags or balloons must have specific properties in order to deploy the air bags or balloons. See for example paragraphs [0004]-[0008], [0014], [0017], [0019], [0022], and [0026]. As also described in the specification, the gas generating compositions of the present invention have properties that enable them to be used to deploy an airbag or balloon. Since a person of ordinary

skill in the art would understand the scope of the claims in light of the teachings in the specification, Applicants request that the rejections be withdrawn.

The fact that the BPAI considered this claim language and did not reject it as being indefinite further supports Applicants' position that this language is definite. The BPAI is authorized to make new rejections of claims under MPEP § 1213.02 and, therefore, the BPAI could have rejected this language if it felt that the claims were indefinite. Since the BPAI did not reject the claims as being indefinite, it can be implied that the BPAI felt that this language was sufficiently definite to apprise one of ordinary skill in the art of the scope of the claims. The Examiner also states that the Appellants' argument on the meaning of this language "lacked any proper factual basis." Office Action of October 16, 2003, p. 3. However, as noted by the BPAI, the Examiner had the burden of showing that the compositions of the references relied upon in the Appeal had the claimed properties and that the Examiner had not met this burden. Decision on Appeal, p. 3-4. It is improper for the Examiner to shift this burden to the Applicants.

In regard to the alleged inconsistencies in meaning of the claim terms, the Examiner states that "in reply to a rejection in Paper No. 14, applicants stated that the noted claim terminology had a certain meaning. . . . Later, applicants stated in their Appeal Brief, that this terminology had a different meaning." In the Office Action response mailed June 15, 2000, which was submitted in response to Paper 14, Applicants stated that the solid composition of claim 1 is "prepared from ingredients selected so that the resultant composition is adapted to be combusted to generant [sic] gas for deploying an air bag or balloon from a supplemental system restraint system. The gas generant ingredients are combined such that when the composition combusts, nitrogen gas and water vapor are produced." Office Action of June 15, 2000, p. 2-3. In the Appeal Brief, Applicants stated that "[t]he composition is formulated so that, when combusted, it generates a mixture of gases suitable for use in deploying an air bag or balloon from a supplemental restraint system. Stated differently, the composition is defined by a property, i.e., suitability for a supplemental restraint system, that the composition possesses upon combustion." Appeal Brief, p. 11-12.

After reviewing Applicants' response to Paper 14 and the Appeal Brief, Applicants believe that these two statements are consistent and explain that the solid gas generating composition, when combusted, produces gases that are used to deploy the air bag or balloon.

Applicants note that the Examiner has not explained why he believes the statements in the response to Paper 14 and in the Appeal Brief are inconsistent. Furthermore, the Examiner has not identified specific portions of the response to Paper 14 and the Appeal Brief that are allegedly inconsistent. As such, the Applicants are unclear about the exact nature of the alleged inconsistencies and, therefore, it is difficult for the Applicants to effectively address the Examiner's issues. In the event that the Examiner maintains the indefiniteness rejections of the claims, Applicants respectfully requests further clarification of the alleged inconsistencies between the two statements.

The Examiner also states that the Applicants failed to respond to the indefiniteness rejection as to the term "suitable" because the Applicants did not comment on the 14 references cited by the Examiner as disclosing apparatus and/or compositions suitable for use therein. Office Action of May 20, 2004, p. 3. Based upon Applicants' understanding of the Examiner's argument, the Examiner appears to believe that the claims are indefinite because they do not recite limitations that limit the use of the gas generating composition to a specific apparatus. The Examiner states that "the instant claims have been left broad as to the kind of apparatus. *Id.* However, the "[b]readth of a claim is not to be equated with indefiniteness." M.P.E.P. 2173.04. "If the scope of the subject matter embraced by the claims is clear, and if applicants have not otherwise indicated that they intend the invention to be of a scope different from that defined in the claims, then the claims comply with 35 U.S.C. 112, second paragraph." *Id.*

Applicants note that the specification clearly discloses properties that are exhibited by the gas generant, when combusted, in order to inflate the air bag or balloon. In addition, the specification discloses gas generating devices, such as air bags, in which the gas generating composition are used. See p. 16, line 16 through p. 17, line 2 and p. 22, line 25 through p. 26, line 22. Since a hypothetical person possessing the ordinary level of skill in the pertinent art

would understand the scope of the term “suitable” in the claims by referring to the specification, the claims are definite and the indefiniteness rejections should be withdrawn.

While Applicants realize that the claims are to be given their broadest reasonable interpretation during prosecution, the broadest reasonable interpretation must be consistent with the specification. M.P.E.P. 2173.05(a). “The meaning of every term used in a claim should be apparent from the prior art or from the specification and drawings at the time the application is filed.” *Id.* (emphasis added). Since the specification discloses gas generating devices in which the gas generating composition are used, a hypothetical person possessing the ordinary level of skill in the pertinent art could ascertain the metes and bounds of the claims by referring to the specification. As such, it is improper for the Examiner to state that “applicants’ failure to discuss the relevant and applied prior art for what the terms mean . . . constitutes a failure to respond.” Office Action of May 20, 2004, p. 3. In addition, since the specification discloses gas generating devices in which the compositions are used, it is unclear why the Examiner relies on the 14 references to determine the meaning of the term “suitable.” Furthermore, since the specification provides sufficient disclosure for one of ordinary level of skill in the pertinent art to ascertain the metes and bounds of the claims, it is unnecessary to refer to the prior art to determine the meaning of the term.

The Examiner also states that the failure to discuss the cited references “leaves an impression of inoperability of the conventional techniques, which is impermissible.” *Id.* However, contrary to the Examiner’s assertions, Applicants have not characterized the cited references as inoperable for their intended purposes. Rather, Applicants have argued that the cited references are unsuitable for use as gas generants in a gas generant device, such as an airbag or balloon.

The Examiner also states that Applicants have failed to discuss the cited case law about the scope of “comprising.” Applicants have amended claims 84, 85, and 116 to recite that the gas generating composition consists essentially of the recited components, rendering this rejection moot.

35 U.S.C. § 103(a) Obviousness Rejections

Obviousness Rejection Based on U.S. Patent No. 5,545,272 to Poole *et al.*, U.S. Patent No. 5,071,630 to Oberth, U.S. Patent No. 5,531,941 to Poole, U.S. Patent No. 3,692,495 to Schneider *et al.*, and Further in View of Lund, Wardle '534, and U.S. Patent No. 5,731,540 to Flanigan *et al.*

Claims 83-87, 89-91, 102, and 114-117 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 5,545,272 to Poole *et al.* ("Poole '272"), U.S. Patent No. 5,071,630 to Oberth ("Oberth"), U.S. Patent No. 5,531,941 to Poole ("Poole '941"), U.S. Patent No. 3,692,495 to Schneider *et al.* ("Schneider"), and further in view of Lund, Wardle '534, and U.S. Patent No. 5,731,540 to Flanigan *et al.* ("Flanigan").

Claim 83 was canceled in Applicants' previous response, rendering the obviousness rejection moot as to that claim. The obviousness rejection of remaining claims 84-87, 89-91, 102, and 114-117 is improper because the cited references do not teach or suggest all the limitations of the claims and do not provide a motivation to combine.

The cited references do not teach or suggest the limitation of "at least one complex of a metal cation and at least one neutral ligand which comprises ammonia, wherein the metal cation is a transition metal cation or an alkaline earth metal cation, and sufficient anion to balance the charge of the metal cation," as recited in claim 84, or the limitation of "a complex of a metal cation and a neutral ligand containing hydrogen and nitrogen and sufficient oxidizing anion to balance the charge of the metal cation, wherein the complex is selected from the group consisting of metal nitrite amines, metal nitrate amines, metal perchlorate amines, and mixtures thereof," as recited in claims 85 and 116. Nothing in the cited references teaches or suggests such a complex and, therefore, the cited references do not cure the deficiencies discussed in the previous Office Action response in the anticipation rejection under Lund.

Claims 86, 87, 89-91, 102, 114, 115, and 117 are allowable, *inter alia*, as depending from an allowable base claim.

In addition, the cited references do not provide a motivation to combine to produce the claimed invention because nothing in the cited references suggests using the complex recited in

claims 84, 85, and 116. The Examiner states that it would have been obvious of one of ordinary skill in the art to substitute common physical agents, such as release agents, and to vary amounts of notoriously well known ingredients to produce the claimed invention. Office Action of October 16, 2003, p.8. However, even if the cited references were combined, the claimed invention would not be produced because the limitations discussed above would be lacking.

Since the cited references do not teach or suggest all the limitations of claims 84-87, 89-91, 102, and 114-117 and do not provide a motivation to combine, Applicants respectfully request that the obviousness rejection be withdrawn.

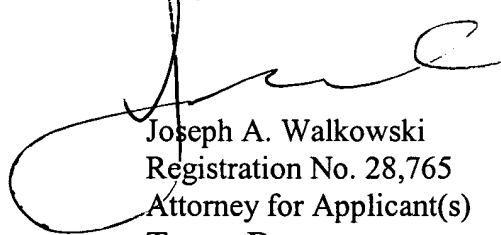
ENTRY OF AMENDMENTS

The amendments to claims 84, 85, and 116 above should be entered by the Examiner because the amendments are supported by the as-filed specification and drawings and do not add any new matter to the application.

CONCLUSION

Claims 84, 85, 87-91, 97, 102, and 114-117 are believed to be in condition for allowance, and an early notice thereof is respectfully solicited. Should the Examiner determine that additional issues remain which might be resolved by a telephone conference, he is respectfully invited to contact Applicants' undersigned attorney.

Respectfully submitted,



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Date: June 17, 2004
KAH/JAW/ps:ljb
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PTO/SB/28 (10-00)

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**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING
REJECTION OVER A PRIOR PATENT**Docket Number (Optional)
2507-5818.1US
(21494-US-09)

In re Application of: Hinshaw et al.

Application No.: 09/025,345

Filed: February 18, 1998

For: METAL COMPLEXES FOR USE AS GAS GENERANTS

The owner*, Alliant Techsystems Inc., of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application, which would extend beyond the expiration date of the full statutory term defined in 35 U.S.C. 154 to 156 and 173, as presently shortened by any terminal disclaimer, of prior Patent No. 5,673,935. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

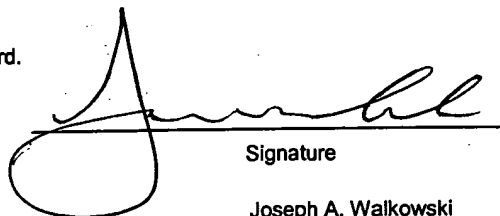
In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 to 156 and 173 of the prior patent, as presently shortened by any terminal disclaimer, in the event that it later: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims cancelled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2. ☒ The undersigned is an attorney of record.



1/16/04

Signature

Date

Joseph A. Walkowski

Typed or printed name
Reg. No. 28,765

- ☒ Terminal disclaimer fee under 37 CFR 1.20(d) is included.

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Supplemental Information Disclosure Statement (4 pages); Form PTO-
1449 (3 pages); Check no. 5627 in the amount of \$180.00; copies of cited
references.

Invention: METAL COMPLEXES FOR USE AS GAS
GENERANTS
Applicant(s): Hinshaw et al.
Filing Date: February 18, 1998
Serial No.: 09/025,345
Date Sent: January 16, 2004 via first class mail
Docket No.: 2507-5818.1US
JAW/ljb





UNITED STATES PATENT AND TRADEMARK OFFICE

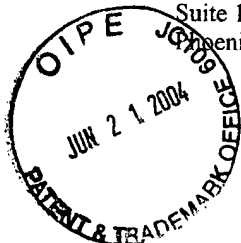
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/025,345	02/18/1998	JERALD C. HINSHAW	PMS-244198	9478

7590

04/03/2002

Sullivan Law Group
5060 North 40th Street
Suite 120
Phoenix, AZ 85018



EXAMINER

MILLER, EDWARD A

ART UNIT

PAPER NUMBER

3641

DATE MAILED: 04/03/2002

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ART UNIT	PAPER
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Commissioner of Patents and Trademarks

This is responsive to Paper No. 32. Note attachments, Form 1449, Papers No. 3, 4, and 4 1/2. The application is being returned to the Honorable Board of Patent Appeals and Interferences for decision.

**EDWARD A. MILLER
PRIMARY EXAMINER**

Atty.
Dkt. No.

M#

Client Ref.

244198

08496

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Applicant: HINDSHAW

Appl. No.: Cont. of U.S. Appl. No. 08/507,632

Filing Date: herewith

Examiner: Unknown

Group Art Unit

Date:

Page

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of

12

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
	AR	2,220,891	11/1940	Cook et al.			
	BR	3,986,908	10/1976	Grebert et al.			
	CR	4,925,600	05/1990	Hommel et al.			
	DR	5,125,684	06/1992	Cartwright			
	ER	5,516,377	05/1996	Highsmith et al.			
	FR	5,212,343	05/1993	Brupacher et al.			
	GR	5,160,386	11/1992	Lund et al.			
	HR	5,141,734	08/1992	Misra			
	IR	5,104,466	04/1992	Allard et al.			
	JR	5,100,174	03/1992	Jasken et al.			
	KR	5,100,172	03/1992	Vanvoohies et al.			
	LR	5,098,597	03/1992	Rothgery et al.			
	MR	5,094,475	03/1992	Olsson et al.			
	NR	5,089,069	02/1992	Ramaswamy et al.			

FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country	Inventor Name	Class	SubClass	English Abstract		Translation Readily Available	
								Enclosed	No	Enclose	No
	OR										
	PR										
	QR										
	RR										
	SR										
	TR										
	UR										
	VR										
	WR										
	XR										

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

YR	Michael Laing, "mer- and fac- [Co(NH ₃) ₃ (NO ₂) ₃]: Do They Exist?", <u>Journal of Chemical Education</u> , Volume 62, Number 8, August 1985, pp. 707-708.				
ZR	K. Wiegardt and H. Siebert, "μ-Carboxylatodi-μ-Hydroxo-bis [triamminecobalt (III)] Complexes", <u>Inorganic Synthesis</u> , 23, 1985, pp. 107-117.				
AAR	K.C. Patil, C. Nesamani, V.R. Pai Verneker, "Synthesis and Characterisation of Metal Hydrazine Nitrate, Azide and Perchlorate Complexes", <u>Synthesis and Reactivity in Inorganic and Metal Organic Chemistry</u> , 23(4), 1982, pp. 383-395.				
ABR	Von H. Siebert, "Isomere des Trinitrotriamminecobalt (III)", <u>Z. Anorg. Allg. Chem.</u> 441, 1978, pp. 47-57.				
ACR	Shidlovskii, A.A.; Gorbunov, V.V.; Shmagin, L.F. (Mosk. Inst. Khim. Mashinostr., Moscow, USSR), "The combustion rates of [Co(NH ₃) ₃] [Co(NO ₂) ₃] (I) [15742-33-3], [Co(NH ₃) ₃ (NO ₂) ₃] (II) [13600-88-9], [Co(NH ₃) ₃] (NO ₂) ₃ (III) [13841-86-6], and (NH ₄) ₃ [Co(NO ₂) ₃] (IV) [14652-46-1] were studied at 10-100 atm. The heats of combustion of I, II, III, and IV were 693, 667, 380, and 345 cal/g; and the ignition temps. were 217, 220, 230, and 185, degree, resp. The combustion rates of I, II, and III increased with pressure and decreased in the order I > II > III. Compound IV burned significantly more slowly and evolved brown fumes." 87:70416 Study of Combustion of Nitro-Ammonia complexes of cobalt (III). Izv. Vyssh. Uchebn. Zaved., Khim., Tekhnol., 20(4), 610-12 (Russian) 1977. CODEN: IUKAR.				
ADR	Robert B. Hagel and Leonard F. Druding, "The Triamine of Cobalt (III). I. Geometrical Isomers of Trinitrotriamminecobalt (III)", <u>Inorganic Chemistry</u> , Volume 9, No. 6, June 1970, pp. 1496-1503.				

Examiner

EDWARD A. MILLER

Date Considered:

3-2004

*EXAMINER:

Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Atty.
Dkt. No.

M#

Client Ref.

244198

08496

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Applicant: HINSHAW

Appln. No.: Cont. of U.S. Appl. No. 08/507,552

Filing Date: herewith

Examiner: Unknown

Group Art Unit: 2204

Date: Page 2 of 12

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
	AR	5,074,940	12/1991	Ochi et al.			
	BR	5,073,273	12/1991	Gupta et al.			
	CR	5,062,367	11/1991	Hayashi et al.			
	DR	5,062,365	11/1991	Canterberry			
	ER	5,060,973	10/1991	Giovanetti			
	FR	5,052,817	11/1991	Bement et al.			
	GR	5,046,429	09/1991	Swann et al.			
	HR	5,043,030	08/1991	Ramaswamy			
	IR	5,033,390	07/1991	Minert et al.			
	JR	5,031,932	07/1991	Frantom et al.			
	KR	5,024,160	06/1991	Canterberry et al.			
	LR	5,022,674	06/1991	Frantom et al.			
	MR	5,019,220	05/1991	Taylor et al.			
	NR	5,019,192	05^S/1991	Ramaswamy			

FOREIGN PATENT DOCUMENTS

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	WR										
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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

	YR	N.G. Klyuchnikov and F.I. Para, "Preparation of Some Hydrazine Compounds of Palladium", Russian Journal of Inorganic Chemistry, 13 (3), pp. 416-418.			
	ZR	Muraji Shibata, Motoshichi Mori, and Eishin Kyuno "Synthesis of Nitroamine- and Cyanoaminecobalt (III) Complexes with Potassium Tricarbonatocobaltate (II) as Starting Material", Inorganic Chemistry, Volume 3, No. 11, November 1964, pp. 1573-1576.			
	AAR	Gessner G. Hawley, "The Condensed Chemical Dictionary", Van Nostrand Reinhold Company, 9th Edition, p. 227.			
	ABR	Bailer et al., Comprehensive Inorganic Chemistry, Vol. 3, pp. 60, 61, 170, 1249, 1250, 1266-69, and 1366-67 (1973).			
	ACR				
	ADR				

Examiner EDWARD A. MILLER

Date Considered: 3-2002

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Atty.
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M#

Client Ref.

244198

08496

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Applicant: HINSHAW

Appln. No.: Cont. of U.S. Appl. No. 08/507,552

Filing Date: herewith

Examiner: Unknown Group Art Unit: 2204

Date:

Page

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of

12

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
	AR	5,015,311	05/1991	Ramaswamy			
	BR	5,015,309	05/1991	Wardle et al.			
	CR	5,005,486	04/1991	Lenzen			
	DR	5,004,586	04/1991	Hayashi et al.			
	ER	5,003,887	04/1991	Unterforsthuber et al.			
	FR	4,998,751	3/1991	Paxton et al.			
	GR	4,982,664	01/1991	Norton			
	HR	4,981,534	01/1991	Scheffe			
	IR	4,963,203	10/1990	Halcomb et al.			
	JR	4,959,011	09/1990	Nilsson			
	KR	4,950,458	08/1990	Cunningham			
	LR	4,948,439	08/1990	Poole et al.			
	MR	4,931,112	06/1990	Wardle et al.			
	NR	4,931,111	06/1990	Poole et al.			

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Examiner

EDWARD A. MILLER

Date Considered:

3-2002

*EXAMINER:

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M#

Client Ref.

244198

08496

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Applicant: HINSHAW

Appln. No.: Cont. of U.S. Appl. No. 08/507,552

Filing Date: herewith

Examiner: Unknown Group Art Unit: 2204

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Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
	AR	4,919,897	04/1990	Bender et al.			
	BR	4,909,549	03/1990	Poole et al.			
	CR	4,890,860	01/1990	Schnieter			
	DR	4,865,667	09/1989	Zeuner et al.			
	ER	4,834,818	05/1989	Kazumi et al.			
	FR	4,834,817	05/1989	Zeuner et al.			
	GR	4,833,996	05/1989	Hayashi et al.			
	HR	4,806,180	02/1989	Goetz et al.			
	IR	4,798,142	01/1989	Canterberry et al.			
	JR	4,758,287	07/1988	Pietz			
	KR	H464	05/1988	Lee et al.			
	LR	4,734,141	03/1988	Cartwright et al.			
	MR	4,699,400	10/1987	Adams et al.			
	NR	4,698,107	10/1987	Goetz et al.			

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Examiner

EDWARD A. MILLER

Date Considered:

7-2002

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Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
9	AR	4,696,705	09/1987	Hamilton			
	BR	4,690,063	09/1987	Granier et al.			
	CR	4,664,033	05/1987	Burkdoll et al.			
	DR	4,632,714	12/1986	Abegg et al.			
	ER	4,604,151	08/1986	Knowlton et al.			
	FR	4,590,860	05/1986	Kromrey			
	GR	4,578,247	03/1986	Bolieau			
	HR	4,547,342	10/1985	Adams et al.			
	IR	4,547,235	10/1985	Schneider et al.			
	JR	4,533,416	08/1985	Poole			
	KR	4,484,960	11/1984	Rucker			
	LR	4,424,086	01/1984	Christopher			
	MR	4,414,902	11/1983	Strasser et al.			
9	NR	4,407,119	10/1983	Biddle et al.			

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Examiner

EDWARD A. MILLER

Date Considered:

9/2004

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**INFORMATION DISCLOSURE STATEMENT
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Applicant: HINSHAW

Appln. No.: Cont. of U.S. Appl. No. 08/507,552

Filing Date: herewith

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Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
	AR	4,390,380	06/1983	Camp			
	BR	4,376,002	03/1983	Utracki			
	CR	4,370,930	02/1983	Strasser et al.			
	DR	4,370,181	01/1983	Lundstrom et al.			
	ER	4,369,079	01/1983	Shaw			
	FR	4,339,288	07/1982	Camp			
	GR	4,306,499	12/1981	Holmes			
	HR	4,298,412	11/1981	Biddle et al.			
	IR	4,246,051	01/1981	Gamer et al.			
	JR	4,244,758	01/1981	Gamer et al.			
	KR	4,238,253	12/1980	Gamer			
	LR	4,214,438	07/1980	Hamilton et al.			
	MR	4,203,787	05/1980	Kirchoff et al.			
	NR	4,203,786	05/1980	Gamer			

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Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
Ca	AR	4,200,615	04/1980	Hamilton et al.			
	BR	4,179,327	12/1979	Seldner			
	CR	4,157,648	06/1979	Brennan et al.			
	DR	4,152,891	05/1979	Gamer			
	ER	4,128,996	12/1978	Gamer et al.			
	FR	4,124,515	11/1978	Gruner et al.			
	GR	4,114,591	09/1978	Nakagawa			
	HR	4,062,078	12/1977	Goetz			
	IR	4,053,567	10/1997	Franz			
	JR	4,021,275	05/1977	Kishi et al.			
	KR	3,996,079	12/1976	Divalentin			
	LR	3,971,729	07/1976	Timmerman			
	MR	3,964,255	06/1976	Catanzarite			
	NR	3,950,009	04/1976	Hamilton			

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Applicant: HINSHAW

Appln. No.: Cont. of U.S. Appl. No. 08/507,552

Filing Date: herewith

Examiner: Unknown Group Art Unit: 2204

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Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
<i>6</i>	AR	3,947,300	03/1976	Passauer et al.			
	BR	3,936,330	02/1976	Dergazarian et al.			
	CR	3,934,984	01/1976	Marlow et al.			
	DR	3,933,543	01/1976	Madden			
	ER	3,931,040	01/1976	Breazeale			
	FR	3,912,562	10/1975	Gamer			
	GR	3,912,561	10/1975	Doin et al.			
	HR	3,912,458	10/1975	Fukuma et al.			
	IR	3,910,805	10/1975	Catanzarite			
	JR	3,902,934	09/1975	Timmerman			
	KR	3,901,747	08/1975	Gamer			
	LR	3,897,235	07/1975	Hamilton et al.			
	MR	3,895,098	07/1975	Pietz			
	NR	3,883,373	05/1975	Sidebottom			

FOREIGN PATENT DOCUMENTS

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Examiner

EDWARD A. MILLER

Date Considered:

3-2502

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244198

08496

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Applicant: HINSHAW

Appln. No.: Cont. of U.S. Appl. No. 08/507,552

Filing Date: herewith

Examiner: Unknown Group Art Unit: 2204

Date: Page 9 of 12

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Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
AR		5,880,595	04/1975	Timmerman			
BR		3,880,447	04/1975	Thorn et al.			
CR		3,868,124	02/1975	Johnson			
DR		3,862,866	01/1975	Timmerman et al.			
ER		3,837,942	09/1974	Cantazarite			
FR		3,833,432	09/1974	Moy et al.			
GR		3,833,029	09/1974	Munn			
HR		3,827,715	08/1974	Lynch			
IR		3,814,694	06/1974	Klager			
JR		3,810,655	05/1974	Pracher			
KR		3,806,461	04/1974	Hendrickson et al.			
LR		3,791,302	02/1974	McLeod			
MR		3,787,074	01/1974	Lewis et al.			
NR		3,785,149	01/1974	Timmerman			

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Examiner

EDWARD MILLER

Date Considered:

2-2001

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244198

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INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

Applicant: HINSHAW

Appln. No.: Cont. of U.S. Appl. No. 08/507,552

Filing Date: herewith

Examiner: Unknown Group Art Unit: 2204

Date:

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Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
	AR	3,779,823	12/1973				
	BR	3,773,947	11/1973				
	CR	3,773,352	11/1973				
	DR	3,773,351	11/1973				
	ER	3,755,182	08/1973				
	FR	3,741,585	06/1973				
	GR	3,723,205	03/1973				
	HR	3,711,115	01/1973				
	IR	3,664,898	05/1972				
	JR	3,674,059	07/1972				
	KR	3,447,955	11/1969				
	LR	3,450,414	06/1969				
	MR	3,405,068	10/1968				
	NR	3,122,462	02/1964				

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Examiner

EDWARD A. MILLER

Date Considered:

3-2002

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Applicant: HINSHAW

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Group Art Unit: 2204

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Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
	AR	3,066,130	11/1962	Zhivadinovich et al			
	BR	3,010,815	11/1961	Pierce et al.			
	CR	2,981,616	04/1961	Boyer			
	DR	2,483,803	10/1949	Bridgman et al.			
	ER	1,399,954	12/1921	Fulton			
	FR	147,871	02/1874	Shaw			
	GR	5,266,132	11/1993	Danen et al.			
	HR	4,336,085	06/1982	Walker et al.			
	IR	4,185,008	01/1980	Caspari et al.			
	JR	3,977,981	08/1976	Dunlop et al.			
	KR	3,673,015	06/1972	Sollott et al.			
	LR	3,463,684	08/1969	Dehn			
	MR	5,536,339	07/1996	Vemeker			
	NR	5,542,704	08/1996	Hamilton et al.			

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U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
AR		5,472,535	12/1995	Mendenhall et al.			
BR		5,514,230	05/1996	Khandhadia			
CR		5,608,183	03/1997	Barnes et al.			
DR		5,592,812	01/1997	Hinshaw et al.			
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244198

93-96-SE-CIP-2

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Applicant: HINSHAW, et al.

Appln. No.: 09/025,345

Filing Date: February 18, 1998

Date: April 10, 1998

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Examiner: Unknown

Group Art Unit: Unknown

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	SubClass	Filing Date (if appropriate)
✓	AR	5,198,046	03/1993	Bucerus et al.			03/1992
✓	BR	5,035,757	07/1991	Poole			10/1990
✓	CR	4,948,439	08/1990	Poole et al.			01/1990
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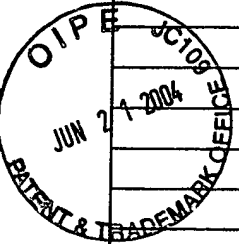
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EDWARD A. MILLER

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CR		3,996,079	12/1976	DIVALENTIN			
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